

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D1 | 2972140 | 14-Feb-1961 | HIRSCH | | | |
| | D2 | 3157853 | 17-Nov-1964 | HIRSCH | | | |
| | D3 | 3220121 | 30-Nov-1965 | CUTLER | | | |
| | D4 | 3497668 | 24-Feb-1970 | HIRSCH | | | |
| | D5 | 3517446 | 30-Jun-1970 | CORLYON et al. | | | |
| | D6 | 3623064 | 23-Nov-1971 | KAGAN | | | |
| | D7 | 3875488 | 1-Apr-1975 | CROCKER et al | | | |
| | D8 | 3902687 | 2-Sep-1975 | HIGHTOWER | | | |
| | D9 | 3903614 | 9-Sep-1975 | DIAMOND et al | | | |
| | D10 | 3911416 | 7-Oct-1975 | FEDER | | | |
| | D11 | 3919691 | 11-Nov-1975 | NOLL | | | |
| | D12 | 3923166 | 2-Dec-1975 | FLETCHER et al | | | |
| | D13 | 4023290 | 17-May-1977 | JOSEPHSON | | | |
| | D14 | 4101884 | 18-Jul-1978 | BENTON, Jr | | | |
| | D15 | 4108146 | 22-Aug-1978 | Golden | | | |
| | D16 | 4108164 | 22-Aug-1978 | HALL, Sr. | | | |
| | D17 | 4127752 | 28-Nov-1978 | LOWTHORP | | | |
| | D18 | 4160508 | 10-Jul-1979 | SALISBURY | | | |
| | D19 | 4236325 | 2-Dec-1980 | HALL et al | | | |
| | D20 | 4242823 | 6-Jan-1981 | BRUNO | | | |
| | D21 | 4262549 | 21-Apr-1981 | SCHWELLENBACH | | | |
| | D22 | 4333070 | 1-Jun-1982 | BARNES | | | |
| | D23 | 4334280 | 8-Jun-1982 | MCDONALD | | | |
| | D24 | 4398889 | 16-Aug-1983 | LAM et al | | | |
| | D25 | 4414537 | 8-Nov-1983 | GRIMES | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/23/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 1 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D26 | 4414984 | 15-Nov-1983 | ZARUDIANSKY | | | |
| | D27 | 4436188 | 13-Mar-1984 | JONES | | | |
| | D28 | 4464117 | 7-Aug-1984 | FOREST | | | |
| | D29 | 4477043 | 16-Oct-1984 | REPPERGER | | | |
| | D30 | 4484179 | 20-Nov-1984 | KASDAY | | | |
| | D31 | 4484191 | 20-Nov-1984 | VAVRA | | | |
| | D32 | 4513235 | 23-Apr-1985 | ACKLAM et al | | | |
| | D33 | 4542375 | 17-Sep-1985 | ALLES et al | | | |
| | D34 | 4545023 | 1-Oct-1985 | MIZZI | | | |
| | D35 | 4550221 | 29-Oct-1985 | MABUSTH | | | |
| | D36 | 4557275 | 10-Dec-1985 | DEMPSEY, JR | | | |
| | D37 | 4560983 | 24-Dec-1985 | WILLIAMS | | | |
| | D38 | 4581491 | 8-Apr-1986 | BOOTHROYD | | | |
| | D39 | 4584625 | 22-Apr-1986 | KELLOGG | | | |
| | D40 | 4599070 | 8-Jul-1986 | HLADKY et al | | | |
| | D41 | 4603284 | 29-Jul-1986 | PERZLEY | | | |
| | D42 | 4604016 | 5-Aug-1986 | JOYCE | | | |
| | D43 | 4689449 | 25-Aug-1987 | ROSEN | | | |
| | D44 | 4692756 | 8-Sep-1987 | CLARK | | | |
| | D45 | 4706294 | 10-Nov-1987 | OUCHIDA | | | |
| | D46 | 4708656 | 24-Nov-1987 | DE VRIES et al | | | |
| | D47 | 4713007 | 15-Dec-1987 | ALBAN | | | |
| | D48 | 4715235 | 29-Dec-1987 | FUKUI et al | | | |
| | D49 | 4757453 | 12-Jul-1988 | NASIFF | | | |
| | D50 | 4758165 | 19-Jul-1988 | TIEMAN et al | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 2 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D51 | 4763356 | 9-Aug-1988 | DAY, JR et al | | | |
| | D52 | 4772205 | 20-Sep-1988 | CHLUMSKY et al | | | |
| | D53 | 4782327 | 1-Nov-1988 | KLEY et al | | | |
| | D54 | 4791416 | 13-Dec-1988 | ADLER | | | |
| | D55 | 4794384 | 27-Dec-1988 | JACKSON | | | |
| | D56 | 4794392 | 27-Dec-1988 | SELINKO | | | |
| | D57 | 4795296 | 3-Jan-1989 | JAU | | | |
| | D58 | 4800721 | 31-Jan-1989 | CEMENSKA et al | | | |
| | D59 | 4821030 | 11-Apr-1989 | BATSON et al | | | |
| | D60 | 4823634 | 24-Apr-1989 | CULVER | | | |
| | D61 | 4837734 | 6-Jun-1989 | ICHIKAWA et al | | | |
| | D62 | 4839838 | 13-Jun-1989 | LABICHE et al | | | |
| | D63 | 4853874 | 1-Aug-1989 | IWAMOTO et al | | | |
| | D64 | 4861269 | 29-Aug-1989 | MEENEN, JR. | | | |
| | D65 | 4868549 | 19-Sep-1989 | AFFINITO et al. | | | |
| | D66 | 4871992 | 3-Oct-1989 | PETERSON | | | |
| | D67 | 4885565 | 5-Dec-1989 | EMBACH | | | |
| | D68 | 4891764 | 2-Jan-1990 | MCINTOSH | | | |
| | D69 | 4896554 | 30-Jan-1990 | CULVER | | | |
| | D70 | 4906843 | 6-Mar-1990 | JONES et al. | | | |
| | D71 | 4914624 | 3-Apr-1990 | DUNTHORN | | | |
| | D72 | 4926879 | 22-May-1990 | SEVRAIN et al | | | |
| | D73 | 4930770 | 5-Jun-1990 | BAKER | | | |
| | D74 | 4934694 | 19-Jun-1990 | MCINTOSH | | | |
| | D75 | 4935728 | 19-Jun-1990 | KLEY | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 3 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D76 | 4949119 | 14-Aug-1990 | MONCRIEF et al. | | | |
| | D77 | 4961038 | 2-Oct-1990 | MACMINN | | | |
| | D78 | 4977298 | 11-Dec-1990 | FUJIYAMA | | | |
| | D79 | 4983901 | 8-Jan-1991 | LEHMER | | | |
| | D80 | 5004391 | 2-Apr-1991 | BURDEA | | | |
| | D81 | 5007300 | 16-Apr-1991 | SIVA | | | |
| | D82 | 5019761 | 28-May-1991 | KRAFT | | | |
| | D83 | 5022384 | 11-Jun-1991 | FREELS | | | |
| | D84 | 5022407 | 11-Jun-1991 | HORCH et al | | | |
| | D85 | 5035242 | 30-Jul-1991 | FRANKLIN | | | |
| | D86 | 5038089 | 6-Aug-1991 | SZAKALY | | | |
| | D87 | 5044956 | 3-Sep-1991 | BEHENSKY et al. | | | |
| | D88 | 5065145 | 12-Nov-1991 | PURCELL | | | |
| | D89 | 5076517 | 31-Dec-1991 | FERRANTI et al | | | |
| | D90 | 5078152 | 7-Jan-1992 | BOND | | | |
| | D91 | 5095303 | 10-Mar-1992 | CLARK et al. | | | |
| | D92 | 5103404 | 7-Apr-1992 | MCINTOSH | | | |
| | D93 | 5107080 | 21-Apr-1992 | ROSEN | | | |
| | D94 | 5107262 | 21-Apr-1992 | CADOZ et al. | | | |
| | D95 | 5116180 | 26-May-1992 | FUNG et al | | | |
| | D96 | 5121091 | 9-Jun-1992 | FUJIYAMA | | | |
| | D97 | 5133076 | 21-Jul-1992 | HAWKINS et al | | | |
| | D98 | 5139261 | 18-Aug-1992 | OPENIANO | | | |
| | D99 | 5143505 | 1-Sep-1992 | BURDEA et al | | | |
| | D100 | 5146566 | 8-Sep-1992 | HOLLIS, JR. et al. | | | |

| | | |
|--|-------------------------|----------------------------|
| EXAMINER | /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |
| Form SB/08 (modified) | | SHEET 4 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D101 | 5159159 | 27-Oct-1992 | ASHER | | | |
| | D102 | 5165897 | 24-Nov-1992 | JOHNSON | | | |
| | D103 | 5175459 | 29-Dec-1992 | DANIAL et al | | | |
| | D104 | 5184319 | 2-Feb-1993 | KRAMER | | | |
| | D105 | 5184868 | 9-Feb-1993 | NISHIYAMA | | | |
| | D106 | 5185561 | 9-Feb-1993 | GOOD et al. | | | |
| | D107 | 5186629 | 16-Feb-1993 | ROHEN | | | |
| | D108 | 5186695 | 16-Feb-1993 | MANGSETH et al | | | |
| | D109 | 5189355 | 23-Feb-1993 | LARKINS et al. | | | |
| | D110 | 5193963 | 16-Mar-1993 | MCAFFEE et al. | | | |
| | D111 | 5197003 | 23-Mar-1993 | MONCRIEF et al. | | | |
| | D112 | 5203563 | 20-Apr-1993 | LOPER, III | | | |
| | D113 | 5212473 | 18-May-1993 | LOUIS | | | |
| | D114 | 5212473 | 18-May-1993 | LOUIS | | | |
| | D115 | 5220260 | 15-Jun-1993 | SCHULER | | | |
| | D116 | 5223658 | 29-Jun-1993 | SUZUKI | | | |
| | D117 | 5223776 | 29-Jun-1993 | RADKE et al. | | | |
| | D118 | 5235868 | 17-Aug-1993 | CULVER | | | |
| | D119 | 5237327 | 17-Aug-1993 | SAITOH et al | | | |
| | D120 | 5240417 | 31-Aug-1993 | SMITHSON et al | | | |
| | D121 | 5262777 | 16-Nov-1993 | LOW et al | | | |
| | D122 | 5264768 | 23-Nov-1993 | GREGORY et al. | | | |
| | D123 | 5270710 | 14-Dec-1993 | GAULTIER et al | | | |
| | D124 | 5271290 | 21-Dec-1993 | FISCHER | | | |
| | D125 | 5275174 | 4-Jan-1994 | COOK | | | |

| | | |
|--|-------------------------|----------------------------|
| EXAMINER | /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |
| Form SB/08 (modified) | | SHEET 5 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D126 | 5275565 | 4-Jan-1994 | MONCRIEF | | | |
| | D127 | 5283970 | 8-Feb-1994 | AIGNER | | | |
| | D128 | 5286203 | 15-Feb-1994 | FULLER et al | | | |
| | D129 | 5296871 | 22-Mar-1994 | PALEY | | | |
| | D130 | 5299810 | 5-Apr-1994 | PIERCE | | | |
| | D131 | 5302132 | 12-Apr-1994 | CORDER | | | |
| | D132 | 5309140 | 3-May-1994 | EVERETT | | | |
| | D133 | 5313230 | 17-May-1994 | VENOLIA et al. | | | |
| | D134 | 5316017 | 31-May-1994 | EDWARDS et al | | | |
| | D135 | 5334027 | 2-Aug-1994 | WHERLOCK | | | |
| | D136 | 5341459 | 23-Aug-1994 | BACKES | | | |
| | D137 | 5354162 | 11-Oct-1994 | BURDEA et al. | | | |
| | D138 | 5355148 | 11-Oct-1994 | ANDERSON | | | |
| | D139 | 5376948 | 27-Dec-1994 | ROBERTS et al | | | |
| | D140 | 5381080 | 10-Jan-1995 | SCHNELL et al. | | | |
| | D141 | 5389849 | 14-Feb-1995 | ASANO et al | | | |
| | D142 | 5389849 | 14-Feb-1995 | ASANO et al. | | | |
| | D143 | 5389865 | 14-Feb-1995 | JACOBUS et al. | | | |
| | D144 | 5396266 | 7-Mar-1995 | BRIMHALL | | | |
| | D145 | 5398044 | 14-Mar-1995 | HILL | | | |
| | D146 | 5399091 | 21-Mar-1995 | MITSUMOTO | | | |
| | D147 | 5405152 | 11-Apr-1995 | KATANICS et al. | | | |
| | D148 | 5414337 | 9-May-1995 | SCHULER | | | |
| | D149 | 5436622 | 25-Jul-1995 | GUTMAN et al | | | |
| | D150 | 5437607 | 1-Aug-1995 | TAYLOR | | | |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 6 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D151 | 5451924 | 19-Sep-1995 | MASSIMINO et al. | | | |
| | D152 | 5457479 | 10-Oct-1995 | CHENG | | | |
| | D153 | 5459382 | 17-Oct-1995 | JACOBUS et al. | | | |
| | D154 | 5461711 | 24-Oct-1995 | WANG et al | | | |
| | D155 | 5466213 | 14-Nov-1995 | HOGAN | | | |
| | D156 | 5471571 | 28-Nov-1995 | SMITH et al. | | | |
| | D157 | 5473235 | 5-Dec-1995 | LANCE et al. | | | |
| | D158 | 5473344 | 5-Dec-1995 | BACON et al. | | | |
| | D159 | 5491477 | 13-Feb-1996 | CLARK et al. | | | |
| | D160 | 5506605 | 9-Apr-1996 | PALEY | | | |
| | D161 | 5512919 | 30-Apr-1996 | ARAKI | | | |
| | D162 | 5513100 | 30-Apr-1996 | PARKER et al. | | | |
| | D163 | 5521336 | 28-May-1996 | BUCHANAN et al | | | |
| | D164 | 5530455 | 25-Jun-1996 | GILLICK et al. | | | |
| | D165 | 5542672 | 6-Aug-1996 | MEREDITH | | | |
| | D166 | 5547382 | 20-Aug-1996 | YAMASKI | | | |
| | D167 | 5557365 | 17-Sep-1996 | OHSAWA | | | |
| | D168 | 5562707 | 8-Oct-1996 | PROCHAZKA et al | | | |
| | D169 | 5563632 | 8-Oct-1996 | ROBERTS | | | |
| | D170 | 5565887 | 15-Oct-1996 | MCCAMBRIDGE et al. | | | |
| | D171 | 5576727 | 19-Nov-1996 | ROSENBERG et al. | | | |
| | D172 | 5577981 | 26-Nov-1996 | JARVIK | | | |
| | D173 | 5580251 | 3-Dec-1996 | GILKES et al | | | |
| | D174 | 5583407 | 10-Dec-1996 | YAMAGUCHI | | | |
| | D175 | 5587937 | 24-Dec-1996 | MASSIE et al. | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 7 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D176 | 5589828 | 31-Dec-1996 | ARMSTRONG | | | |
| | D177 | 5589854 | 31-Dec-1996 | TSAI | | | |
| | D178 | 5591082 | 7-Jan-1997 | JENSEN et al. | | | |
| | D179 | 5596347 | 21-Jan-1997 | ROBERTSON et al. | | | |
| | D180 | 5600777 | 4-Feb-1997 | WANG et al | | | |
| | D181 | 5619180 | 8-Apr-1997 | MASSIMINO et al. | | | |
| | D182 | 5625576 | 29-Apr-1997 | MASSIE et al | | | |
| | D183 | 5629594 | 13-May-1997 | JACOBUS et al. | | | |
| | D184 | 5638060 | 10-Jun-1997 | KATAOKA et al | | | |
| | D185 | 5642469 | 24-Jun-1997 | HANNAFORD et al. | | | |
| | D186 | 5643087 | 1-Jul-1997 | MARCUS et al. | | | |
| | D187 | 5656901 | 12-Aug-1997 | KURITA | | | |
| | D188 | 5666138 | 9-Sep-1997 | CULVER | | | |
| | D189 | 5666473 | 9-Sep-1997 | WALLACE | | | |
| | D190 | 5670755 | 23-Sep-1997 | KWON | | | |
| | D191 | 5690582 | 25-Nov-1997 | ULRICH et al. | | | |
| | D192 | 5691747 | 25-Nov-1997 | AMANO | | | |
| | D193 | 5691898 | 25-Nov-1997 | ROSENBERG et al | | | |
| | D194 | 5694013 | 2-Dec-1997 | STEWART et al. | | | |
| | D195 | 5699059 | 16-Dec-1997 | HILLER | | | |
| | D196 | 5709219 | 20-Jan-1998 | CHEN et | | | |
| | D197 | 5721566 | 24-Feb-1998 | ROSENBERG et al. | | | |
| | D198 | 5724106 | 3-Mar-1998 | AUTRY et al. | | | |
| | D199 | 5724278 | 3-Mar-1998 | OHGOSE et al. | | | |
| | D200 | 5729249 | 17-Mar-1998 | YASUTAKE | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 8 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D201 | 5731804 | 24-Mar-1998 | ROSENBERG | | | |
| | D202 | 5734373 | 31-Mar-1998 | ROSENBERG et al. | | | |
| | D203 | 5736978 | 7-Apr-1998 | HASSER et al | | | |
| | D204 | 5739811 | 14-Apr-1998 | ROSENBERG et al | | | |
| | D205 | 5742278 | 21-Apr-1998 | CHEN et al. | | | |
| | D206 | 5745715 | 28-Apr-1998 | PICKOVER et al. | | | |
| | D207 | 5754023 | 19-May-1998 | ROSTON et al | | | |
| | D208 | 5755577 | 26-May-1998 | GILLIO | | | |
| | D209 | 5757358 | 26-May-1998 | OSGA | | | |
| | D210 | 5760764 | 2-Jun-1998 | MARTINELLI | | | |
| | D211 | 5766016 | 16-Jun-1998 | SINCLAIR | | | |
| | D212 | 5767457 | 16-Jun-1998 | GERPHEIDE et al | | | |
| | D213 | 5767839 | 16-Jun-1998 | ROSENBERG | | | |
| | D214 | 5769640 | 23-Jun-1998 | JACOBUS et al. | | | |
| | D215 | 5771037 | 23-Jun-1998 | JACKSON | | | |
| | D216 | 5781172 | 14-Jul-1998 | ENGEL et al | | | |
| | D217 | 5784052 | 21-Jul-1998 | KEYSON | | | |
| | D218 | 5785630 | 28-Jul-1998 | BOBICK et al | | | |
| | D219 | 5790108 | 4-Aug-1998 | SALCUDEAN | | | |
| | D220 | 5802353 | 1-Sep-1998 | AVILA et al. | | | |
| | D221 | 5804780 | 8-Sep-1998 | BARTHA | | | |
| | D222 | 5805140 | 8-Sep-1998 | ROSENBERG et al. | | | |
| | D223 | 5805165 | 8-Sep-1998 | THORNE, III et al. | | | |
| | D224 | 5805416 | 8-Sep-1998 | FRIEND et al | | | |
| | D225 | 5808601 | 15-Sep-1998 | LEAH et al. | | | |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 9 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D226 | 5808603 | 15-Sep-1998 | CHEN | | | |
| | D227 | 5821921 | 13-Oct-1998 | OSBORN et al. | | | |
| | D228 | 5823876 | 20-Oct-1998 | UNBEHAND | | | |
| | D229 | 5825308 | 20-Oct-1998 | ROSENBERG | | | |
| | D230 | 5828197 | 27-Oct-1998 | MARTIN | | | |
| | D231 | 5828364 | 27-Oct-1998 | SIDDIQUI | | | |
| | D232 | 5831408 | 3-Nov-1998 | JACOBUS et al. | | | |
| | D233 | 5835080 | 10-Nov-1998 | BEETSON et al. | | | |
| | D234 | 5844392 | 1-Dec-1998 | PEURACH et al. | | | |
| | D235 | 5844506 | 1-Dec-1998 | BINSTEAD | | | |
| | D236 | 5877748 | 2-Mar-1999 | REDLICH | | | |
| | D237 | 5880714 | 9-Mar-1999 | ROSENBERG et al. | | | |
| | D238 | 5887995 | 30-Mar-1999 | HOLEHAN | | | |
| | D239 | 5889236 | 30-Mar-1999 | GILLESPIE et al. | | | |
| | D240 | 5889670 | 30-Mar-1999 | SCHULER et al. | | | |
| | D241 | 5896125 | 20-Apr-1999 | NIEDZWIECKI | | | |
| | D242 | 5897437 | 27-Apr-1999 | NISHIUMI et al. | | | |
| | D243 | 5903257 | 11-May-1999 | NISHIUMI et al. | | | |
| | D244 | 5912661 | 15-Jun-1999 | SIDDIQUI | | | |
| | D245 | 5914705 | 22-Jun-1999 | JOHNSON et al. | | | |
| | D246 | 5914708 | 22-Jun-1999 | LEGRANGE et al. | | | |
| | D247 | 5929846 | 27-Jul-1999 | ROSENBERG et al. | | | |
| | D248 | 5942733 | 24-Aug-1999 | ALLEN et al. | | | |
| | D249 | 5943044 | 24-Aug-1999 | MARTINELLI et al. | | | |
| | D250 | 5944151 | 31-Aug-1999 | JAKOBS et al. | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 10 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------------|----------|-------------|-------------------------------|-------|------|-------------|
| | D251 | 5956016 | 21-Sep-1999 | KUENZNER et al | | | |
| | D252 | 5959613 | 28-Sep-1999 | ROSENBERG et al. | | | |
| | D253 | 5973689 | 26-Oct-1999 | GALLERY | | | |
| | D254 | 5977867 | 2-Nov-1999 | BLOUIN | | | |
| | D255 | 5977867 | 2-Nov-1999 | BLOUIN | | | |
| | D256 | 5982304 | 9-Nov-1999 | SELKER et al | | | |
| | D257 | 5984785 | 16-Nov-1999 | TAKEDA et al | | | |
| | D258 | 5986643 | 16-Nov-1999 | HARVILL et al | | | |
| | D259 | 5988902 | 23-Nov-1999 | HOLEHAN | | | |
| | D260 | 5990869 | 23-Nov-1999 | KUBICA et al. | | | |
| | D261 | 6001014 | 14-Dec-1999 | OGATA et al | | | |
| | D262 | 6004134 | 21-Dec-1999 | MARCUS et al. | | | |
| | D263 | 6005551 | 21-Dec-1999 | OSBORNE et al | | | |
| | D264 | 6008800 | 28-Dec-1999 | PRYOR | | | |
| | D265 | 6020876 | 1-Feb-2000 | ROSENBERG et al | | | |
| | D266 | 6024576 | 15-Feb-2000 | BEVIRT et al. | | | |
| | D267 | 6037927 | 14-Mar-2000 | ROSENBERG | | | |
| | D268 | 6061004 | 9-May-2000 | ROSENBERG | | | |
| | D269 | 6067081 | 23-May-2000 | HAHLGANSS et al | | | |
| | D270 | 6072475 | 6-Jun-2000 | VAN KETWICH et al | | | |
| | D271 | 6081536 | 27-Jun-2000 | GORSSUCH et al | | | |
| | D272 | 6088017 | 11-Jul-2000 | TREMBLAY et al. | | | |
| | D273 | 6088019 | 11-Jul-2000 | ROSENBERG | | | |
| | D274 | 6100874 | 8-Aug-2000 | SCHENA et al | | | |
| | D275 | 6102803 | 15-Aug-2000 | TAKEDA et al. | | | |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 11 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D276 | 6110130 | 29-Aug-2000 | KRAMER | | | |
| | D277 | 6111577 | 29-Aug-2000 | ZILLES et al | | | |
| | D278 | 6118435 | 12-Sep-2000 | FUJITA et al | | | |
| | D279 | 6140987 | 31-Oct-2000 | STEIN et al | | | |
| | D280 | 6147422 | 14-Nov-2000 | DELSON et al | | | |
| | D281 | 6147674 | 14-Nov-2000 | ROSENBERG et al | | | |
| | D282 | 6151332 | 21-Nov-2000 | GORSUCH et al | | | |
| | D283 | 6166723 | 26-Dec-2000 | SCHEMA et al | | | |
| | D284 | 6171191 | 9-Jan-2001 | OGATA et al | | | |
| | D285 | 6178157 | 23-Jan-2001 | BERG et al | | | |
| | D286 | 6184868 | 6-Feb-2001 | SHAHIOIAN | | | |
| | D287 | 6198206 | 6-Mar-2001 | SAARMAA et al | | | |
| | D288 | 6215778 | 10-Apr-2001 | LOMP et al | | | |
| | D289 | 6218966 | 17-Apr-2001 | GOODWIN et al | | | |
| | D290 | 6236647 | 22-May-2001 | AMALFITANO | | | |
| | D291 | 6239790 | 29-May-2001 | MARTINTELLI et al | | | |
| | D292 | 6243080 | 5-Jun-2001 | MOLNE | | | |
| | D293 | 6262717 | 17-Jul-2001 | DONOHUE et al | | | |
| | D294 | 6307465 | 23-Oct-2001 | KAYMA et al | | | |
| | D295 | 6323846 | 27-Nov-2001 | WESTERMAN et al | | | |
| | D296 | 6326901 | 4-Dec-2001 | GONZALES | | | |
| | D297 | 6373463 | 16-Apr-2002 | BEEKS | | | |
| | D298 | 6388655 | 14-May-2002 | LEUNG | | | |
| | D299 | 6388999 | 14-May-2002 | GORSUCH et al | | | |
| | D300 | 6414674 | 2-Jul-2002 | KAMPER et al | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 12 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|----------|-------------|-------------------------------|-------|------|-------------|
| | D301 | 6415138 | 2-Jul-2002 | SIROLA et al | | | |
| | D302 | 6422941 | 23-Jul-2002 | THORNER et al | | | |
| | D303 | 6424356 | 23-Jul-2002 | CHANG et al | | | |
| | D304 | 6445284 | 3-Sep-2002 | CRUZ-HERNANDEZ et al | | | |
| | D305 | 6447069 | 10-Sep-2002 | TERRIS et al | | | |
| | D306 | 6448977 | 10-Sep-2002 | BRAUN et al | | | |
| | D307 | 6469695 | 22-Oct-2002 | WHITE | | | |
| | D308 | 6473069 | 29-Oct-2002 | GERPHEIDE | | | |
| | D309 | 6487421 | 26-Nov-2002 | HESS et al | | | |
| | D310 | 6509892 | 21-Jan-2003 | COOPER et al | | | |
| | D311 | 6518958 | 11-Feb-2003 | MIYAJIMA et al | | | |
| | D312 | 6529122 | 4-Mar-2003 | MAGNUSSEN et al | | | |
| | D313 | 6535201 | 18-Mar-2003 | COOPER et al | | | |
| | D314 | 6563487 | 13-May-2003 | MARTIN | | | |
| | D315 | 6610936 | 26-Aug-2003 | GILLESPIE et al | | | |
| | D316 | 6628195 | 30-Sep-2003 | COUDON | | | |
| | D317 | 6636202 | 21-Oct-2003 | ISHMAEL, JR et al | | | |
| | D318 | 6639581 | 28-Oct-2003 | MOORE | | | |
| | D319 | 6639582 | 28-Oct-2003 | SHRADER | | | |
| | D320 | 6647145 | 11-Nov-2003 | GAY | | | |
| | D321 | 6680729 | 20-Jan-2004 | SHAHIOIAN et al | | | |
| | D322 | 6697043 | 24-Feb-2004 | SHAHIOIAN | | | |
| | D323 | 6723937 | 20-Apr-2004 | ENGLEMANN et al | | | |
| | D324 | 6834373 | 21-Dec-2004 | DIEBERGER | | | |
| | D325 | 6982696 | 3-Jan-2006 | SHAHIOIAN | | | |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 13 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

U.S. PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | FILING DATE |
|---------------------|-------|--------------|-------------|-------------------------------|-------|------|-------------|
| | D326 | 7009595 | 7-Mar-2006 | ROBERTS et al | | | |
| | D327 | 7061466 | 13-Jun-2006 | MOORE | | | |
| | D328 | 7113177 | 26-Sep-2006 | FRANZEN | | | |
| | D329 | 7151528 | 19-Dec-2006 | TAYLOR et al | | | |
| | D330 | 7215329 | 8-May-2007 | YOSHIKAWA et al | | | |
| | D331 | 7218310 | 15-May-2007 | TIERLING | | | |
| | D332 | 7292227 | 6-Nov-2007 | FUKUMOTO et al | | | |
| | D333 | 7312790 | 25-Dec-2007 | SATO et al | | | |
| | D334 | 7336260 | 26-Feb-2008 | MARTIN et al | | | |
| | D335 | 7450110 | 11-Nov-2008 | SHAHIOIAN et al | | | |
| | D336 | 7463249 | 9-Dec-2008 | KNOWLES et al | | | |
| | D337 | 7548232 | 16-Jun-2009 | SHAHIOIAN et al | | | |
| | D338 | 7728820 | 1-Jun-2010 | ROSENBERG et al | | | |
| | D339 | 2003-0016211 | 23-Jan-2003 | WOOLLEY | | | |
| | D340 | 2003-0022701 | 30-Jan-2003 | GUPTA | | | |
| | D341 | 2003-0048260 | 13-Mar-2003 | MATUSIS | | | |
| | D342 | 2003-0058265 | 27-Mar-2003 | ROBINSON et al | | | |
| | D343 | 2003-0071795 | 17-Apr-2003 | BALDAUF et al | | | |
| | D344 | 2003-0095105 | 22-May-2003 | VAANANEN | | | |
| | D345 | 2003-0128191 | 10-Jul-2003 | STRASSER et al | | | |
| | D346 | 2003-0128192 | 10-Jul-2003 | Van Os | | | |
| | D347 | 2003-0184574 | 2-Oct-2003 | PHILLIPS et al | | | |
| | D348 | 2007-0299478 | 4-Oct-2007 | ROSENBERG et al | | | |

FOREIGN PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | COUNTRY | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | TRANSLATION |
|--|-------|----------|---------|------|-------------------------------|-------|------|----------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | | | | | DATE CONSIDERED | | | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | | | | | | | |
| Form SB/08 (modified) | | | | | | | | SHEET 14 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

FOREIGN PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | COUNTRY | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | TRANSLATION | |
|---------------------|-------------|---------------------------------------|---------|-------------|------------------------------------|-------|------|-------------|--|
| * | D349 | DE 19911416 US equivalent 6626358 | DE | 2-Nov-2000 | BREIMESSER et al | | | | |
| * | D350 | EP 0062664 | EP | 20-Oct-1982 | BUCKNAM | | | | |
| * | D351 | EP 0085518 | EP | 10-Aug-1983 | HILL et al | | | | |
| * | D352 | EP 0265011 | EP | 27-Apr-1988 | MEES et al | | | | |
| * | D353 | EP 0349086 | EP | 3-Jan-1990 | VISSER | | | | |
| * | D354 | EP 0556999 | EP | 27-May-1998 | NCR International, Inc. WINDSOR | | | | |
| * | D355 | EP 0607580 | EP | 27-Jul-1994 | SELKER | | | | |
| * | D356 | EP 0626634 | EP | 30-Nov-1994 | DOYAMA et al | | | | |
| * | D357 | EP 0875819 | EP | 4-Nov-1998 | OSBORNE et al | | | | |
| * | D358 | EP 1182851 | EP | 27-Feb-2002 | BECKER | | | | |
| * | D359 | JP 01-003664 | JP | 19-Jul-1990 | | | | | |
| * | D360 | JP 02-109714 | JP | 13-Jan-1992 | | | | | |
| * | D361 | JP 04-007371 | JP | 3-Aug-1993 | | | | | |
| * | D362 | JP 05-020226 | JP | 12-Mar-1993 | | | | | |
| * | D363 | JP 05-193862 | JP | 27-Jan-1995 | Sega Corporation | | | | |
| * | D364 | JP 06-018341 | JP | 25-Jan-1994 | NONAKA | | | | |
| * | D365 | JP 06-139018 | JP | 20-May-1994 | TSUCHIKANE et al | | | | |
| * | D366 | JP 06-265991 US equivalent 5557365 | JP | 22-Sep-1994 | OSAWA | | | | |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 15 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|-----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

FOREIGN PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | COUNTRY | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | TRANSLATION | |
|---------------------|-------|------------------|---------|-------------|-------------------------------|-------|------|-------------|--|
| * | D367 | JP 07-064723 | JP | 10-Mar-1995 | NAWATA | | | | |
| * | D368 | JP 07-113703 | JP | 2-May-1995 | NONAKA | | | | |
| * | D369 | JP 07-266263 | JP | 17-Oct-1995 | ASANO et al | | | | |
| * | D370 | JP 10-105337 | JP | 24-Apr-1998 | HAHLGANS et al | | | | |
| * | D371 | JP 11-085400 | JP | 30-Mar-1999 | OGASAWARA et al | | | | |
| * | D372 | JP 11-338629 | JP | 10-Dec-1999 | MATSUDAIRA | | | | |
| * | D373 | JP 2001-350592 | JP | 21-Dec-2001 | Ryo et al | | | | |
| * | D374 | JP 2002-259059 A | JP | 13-Sep-2002 | Motoyama et al | | | | |
| * | D375 | JP 63-164127 | JP | 26-Oct-1988 | | | | | |
| * | D376 | JPU 2511577 | JP | 9-Jul-1996 | | | | | |
| * | D377 | WO 1992/00559 | WO | 9-Jan-1992 | | | | | |
| * | D378 | WO 1995/32459 | WO | 30-Nov-1995 | MARCUS et al. | | | | |
| * | D379 | WO 1996/28777 | WO | 19-Sep-1996 | KEYSON | | | | |
| * | D380 | WO 1997/020305 | WO | 5-Jun-1997 | TREMBLAY et al. | | | | |
| * | D381 | WO 1997/12357 | WO | 3-Apr-1997 | ROSENBERG et al | | | | |
| * | D382 | WO 1997/18546 | WO | 22-May-1997 | | | | | |
| * | D383 | WO 1997/21160 | WO | 12-Jun-1997 | ROSENBERG et al | | | | |
| * | D384 | WO 1997/31333 | WO | 28-Aug-1997 | TOMER | | | | |
| * | D385 | WO 1998/08159 | WO | 26-Feb-1998 | KUBICA et al. | | | | |
| * | D386 | WO 1998/24183 | WO | 4-Jun-1998 | SCHENA et al | | | | |
| * | D387 | WO 1998/58323 | WO | 23-Dec-1998 | ROSENBEG et al | | | | |
| * | D388 | WO 1999/40504 | WO | 12-Aug-1999 | BARON et al | | | | |
| * | D389 | WO 2000/003319 | WO | 20-Jan-2000 | WARREN et al | | | | |

| | | |
|--|-------------------------|--------------------|
| EXAMINER | /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |
| Form SB/08 (modified) | | SHEET 16 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

FOREIGN PATENT DOCUMENTS

| Examiner INITIAL | INDEX | DOCUMENT | COUNTRY | DATE | FIRST INVENTOR'S LAST NAME | CLASS | SUB. | TRANSLATION |
|---------------------|-------------|---------------|---------|-------------|-------------------------------|-------|------|-------------|
| * | D390 | WO 2000/21071 | WO | 13-Apr-2000 | SHAHIOIAN et al | | | |
| * | D391 | WO 2002/12991 | WO | 14-Feb-2002 | FUKUMOTO et al | | | |
| * | D392 | WO 2002/27645 | WO | 4-Apr-2002 | FRANZEN | | | |
| * | D393 | WO 2002/31807 | WO | 18-Apr-2002 | HWANG et al | | | |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|---|
| * | D394 | Adachi et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," 1994, Suzuki Motor Corp., pp. 1-7. |
| * | D395 | ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989. |
| * | D396 | ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992. |
| * | D397 | Adelstein, et al., "A High Performance Two-Degree-of-Freedom Kinesthetic Interface," MIT, 1992, pp. 108-112. |
| * | D398 | Akamatsu et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," 1994, Presence vol. 3, pp. 73-80. |
| * | D399 | Atkinson et al., "Computing with Feeling," Comput. & Graphics, vol. 2, 1977, pp. 97-103. |
| * | D400 | AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129- 180, 1992. |
| * | D401 | BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990. |
| * | D402 | Batter et al., "Grobe-1: A computer Display to the sense of Feel," Proc IFIP Congress, 1971, pp. 759-763. |
| * | D403 | BEJCZY, "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM-IFTToMM, Sep. 8-12, 1981. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 17 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|--|
| * | D404 | BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980. |
| * | D405 | BEJCZY et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989. |
| * | D406 | BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980. |
| * | D407 | BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413- 3/87/0000/0318501.00 1987 IEEE, 1987. |
| * | D408 | Bejezy et al., "The Phantom Robot: Predictive Displays for Teleoperation with Time Delay," IEEE CH2876, Jan. 1990, pp. 546-550. |
| * | D409 | Bliss, James C., "Optical-to-Tactile Image Conversion for the Blind," IEEE Transactions on Man-Machine Systems, Volume MMS-11, no. 1, 1970, pp. 58-65. |
| * | D410 | Bolanowski, S.J. et al., "Four Channels Mediate the Mechanical Aspects of Touch," J. Acoust. Soc. Am. 84 Volume 84 (5), November 1988, pp. 1680-1694. |
| * | D411 | BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985. |
| * | D412 | Brooks, Jr. et al., "Project GROPE, Haptic Displays for Scientific Visualization," Computer Graphics, vol. 24, #4, 1990, pp. 177-184. |
| * | D413 | BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993. |
| * | D414 | BUTTOLO et al., "Pen-based force Display for Precision Manipulation in Virtual Environments," IEEE 0-8186-7084-3, 1995, pp. 217-224. |
| * | D415 | CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, June 23, 1983. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 18 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------|--|
| * | D416 | CALDWELL et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993. |
| * | D417 | Colgate et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces," Northwestern University, IL, 1993., pp. 1-8. |
| * | D418 | Dennerlein et al., "Vibrotactile Feedback for Industrial Telemanipulators," 1997, Sixth Annual Symp. On Haptic Interfaces for Virtual Env. And Teleoperator Systems, ASME IMECE, Dallas, pp. 1-7. |
| * | D419 | Dennerlein, Jack et al., "Commercialization of Vibrotactile Feedback for Telemanipulation and Virtual Environments," 1997, Phase I Final Report for ONR Contract N00014-96-C-0325 (not published or publicly available). |
| * | D420 | Durlach, Nathaniel I. ET AL, "Virtual REALITY: Scientific and Technological Challenges", National Academy Press, Washington, DC 1995 pp. 160-205 |
| * | D421 | Eberhardt, Silvio P. et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results," Proceedings of ASME Dynamic Systems and Control, Vol. DSC-55-1, No. 1, 1994, pp. 345-351. |
| * | D422 | Eberhardt, Silvio P. et al., "OMAR - A Haptic Display for Speech Perception by Deaf and Deaf-Blind Individuals," IEEE 1993, pp. 195-201. |
| * | D423 | Ellis et al., Design & Evaluation of a High-Performance Prototype Planar Haptic Interface, Dec. 1993, Advances in Robotics, 55-64. |
| * | D424 | Fischer, et al., "Specification and Design of Input Devices for Teleoperation," IEEE CH2876, Jan. 1990, pp. 540-545. |
| * | D425 | FOKUMOTO, "Active Click: Tactile Feedback For Touch Panels," ACM CHI2001 Extended Abstracts, pp. 121- 122, April 2001. |
| * | D426 | Friskén-Gibson, Sarah F. et al, "A 64-Solenoid, Four-Level Fingertip Search Display for the Blind," IEEE Transactions on Biomedical Engineering, Vol. BME-34, No. 12, December 1987, pp. 963-965. |
| * | D427 | GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995. |
| * | D428 | Goldstein, Moise H. et al., "Tactile Aids for the Profoundly Deaf Child," 77 J. Acoust. Soc. Am 77 (1), January 1985, pp. 258-265. |
| * | D429 | GOTOW et al., " Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337 |
| * | D430 | Gotow et al., "Perception of Mechanical Properties at the Man—Machine Interface," IEEE CH2503-1, 1987, pp. 688-690. |
| * | D431 | Hannaford et al., "Force-Feedback Cursor Control," NASA Tech Briefs, vol. 13, No. 11, 1989, pp. 1-7. |

| | | |
|--|-------------------------|----------------------------|
| EXAMINER | /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |
| Form SB/08 (modified) | | SHEET 19 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|---|
| * | D432 | Hannaford et al., "Performance Evaluation of a 6-Axis Generalized Force-Reflecting Teleoperator," IEEE Transactions on Systems, Man, and Cybernetics, vol. 21, No. 3, 1991, pp. 621-623, 631-633. |
| * | D433 | Hasser, C., "Tactile Feedback for a Force-Reflecting Haptic Display," School of Eng., Univ. of Dayton, Dayton, OH, 1995, pp. 1-98. |
| * | D434 | Hasser, C. et al., "Tactile Feedback with Adaptive Controller for a Force-Reflecting Haptic Display," Parts 1 and 2, IEEE 0-7803-3131-1, 1996, pp. 526-533. |
| * | D435 | Hirota et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pp. 256-262. |
| * | D436 | HOWE, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992. |
| * | D437 | Howe et al., "Task Performance w/ a dextrous Teleoperated Hand System," Proc. of SPIE, vol. 1833, 1992, pp. 1-9. |
| * | D438 | IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990. |
| * | D439 | IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993. |
| * | D440 | Iwata, Hiroo, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, vol. 24, No. 4, Aug. 1990, pp. 165-170. |
| * | D441 | JACKSON, K. M., "Linearity of Radio-Frequency Transducers", Medical and Biological Engineering and Computer, July 1977, pp. 446-449 |
| * | D442 | JACOBSEN et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," IntervenorVROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991. |
| * | D443 | JOHNSON, David A., "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August 1990. (Tini Allow Company, Inc., August 1990, 2 pages, pp. i-33) |
| * | D444 | JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990. |
| * | D445 | Kaczmarek, K. A. et al. "Tactile Displays," in: Virtual Environments and Advanced Interface Design, New York: Oxford University Press, 1995, pp. 349-414. |
| * | D446 | Kaczmarek, Kurt A. et al, "Electrotactile and Vibrotactile Displays for Sensory Substitution Systems", IEEE Transactions on Biomedical Engineering, Vol. 38, No. 1, January 1991, pp. 1-16. |
| * | D447 | Kelley et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human—Computer Interface using an Electromagnetically Actuated Input/Output Device," Oct. 19, 1993 University of British Columbia pp. 1-27. |
| * | D448 | Kelley et al., "On the Development of a Force-Feedback Mouse and its Integration into a graphical user Interface," Nov. 1994, Engineering Congress and Exhibition, pp. 1-8. |
| * | D449 | Kilpatrick et al., "The Use of Kinesthetic Supplement in an Interactive Graphics System," University of North Carolina, 1976, pp. 1-172. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 20 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|--|
| * | D450 | KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993. |
| * | D451 | KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, 1995. |
| * | D452 | Kotoku, "A Predictive Display with Force Feedback and its Application to Remote Manipulation System with Transmission Time Delay," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992. |
| * | D453 | Kotoku, et al., "Environment Modeling for the Interactive Display (EMID) Used in Telerobotic Systems," IEEE/RSJ Int'l Workshop on Intelligent Robots and Systems, Nov. 1991, pp. 999-1004. |
| * | D454 | LAKE, "Cyberman from Logitech," GameBytes, 1994. |
| * | D455 | "Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994. cited by other. |
| * | D456 | MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8- 11, 1994. |
| * | D457 | MCAFFEE ET AL, "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, pp. 1- 50, A1-A36, B1-B5, C1-C36, January 1988. |
| * | D458 | Millman et al., "Design of a 4 Degree of Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1493. |
| * | D459 | MINSKY, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995. |
| * | D460 | Minsky et al., "Feeling & Seeing: Issues in Force Display," ACM089791-351-5, 1990, pp. 235-242, 270. |
| * | D461 | Munch et al., "Intelligent Control for Haptic Displays," Eurographics '96, vol. 15, No. 3, 1996, pp. 217-226. |
| * | D462 | Noll, "Man-Machine Tactile," SID Journal, Jul./Aug. 1972 Issue. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 21 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (I103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|--|-------------|---|
| * | D463 | OUH-YOUNG, "Force Display in Molecular Docking," Order No. 9034744, p. 1-369, 1990. |
| * | D464 | OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995. |
| * | D465 | OUH-YOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995. |
| * | D466 | Ouh-Young et al., "Creating an Illusion of Feel: Control Issues in Force Display," Univ. of N. Carolina, 1989, pp. 1-14. |
| * | D467 | Ouh-young, et al., Using a Manipulator for Force Display in Molecular Docking, IEEE CH2555, 1988, pp. 1824-1829. |
| * | D468 | PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990. |
| * | D469 | PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," Master of Science Thesis, MIT, Nov. 8, 1990. |
| * | D470 | Payette et al., "Evaluation of a Force Feedback (Haptic) Computer Printing Device in Zero Gravity," Oct. 17, 1996, ASME Dynamics Systems, vol. 58 pp. 547-553. |
| * | D471 | Peine, W.J., "Tactile Shape Displays for Small Scale Shape Feedback," http://www.hrl.harvard.edu/peine/display.html , 1998, pp. 1-2. |
| * | D472 | PIMENTEL et al., "Virtual Reality: through the new looking glass," 2nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994. |
| * | D473 | Rabinowitz, W. M. et al., "Multidimensional Tactile Displays: Identification of Vibratory Intensity, Frequency, and Contactor Area," J. Acoust. Soc. Am. 82 (4), October 1987, pp. 1243-1252. |
| * | D474 | Ramstein, Christophe, "Combining Haptic and Braille Technologies: Design Issues and Pilot Study," Assets '96, 2nd Annual ACM Conference on Assistive Technologies, ACM SIGGRAPH, Apr. 1996, pp. 37-44. |
| * | D475 | RAMSTEIN et al., "The Pantograph: A Large Workspace Haptic Device for a Multimodal Human—Computer Interaction," Computer—Human Interaction, CHI 1994, pp. 1-3. |
| EXAMINER /Hyun Nam/ (10/25/2010) | | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |
| Form SB/08 (modified) | | SHEET 22 OF 25 |

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|--|
| * | D476 | ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994 |
| * | D477 | Rosenberg, L., "Virtual fixtures as tools to enhance operator performance in telepresence environments," SPIE Manipulator Technology, 1993, pp. 1-12. |
| * | D478 | Rosenberg et al., "A Force Feedback Programming Primer," Immersion Corp., 1997, pp. 1-176. |
| * | D479 | Rosenberg et al., "Commercially Viable force feedback Controller for Individuals with Neuromotor Disabilities," Armstrong Laboratory, AL/CF-TR-1997-0016, 1996, pp. 1-33. |
| * | D480 | Rosenberg et al., "Perceptual Decomposition of Virtual Haptic Surfaces," Proc. IEEE Symposium on Research Frontiers in Virtual Reality, 1993, pp. 1-8. |
| * | D481 | Rosenberg et al., "The use of force feedback to enhance graphical user interfaces," Stereoscopic Displays & Virtual Reality Systems, 1996, pp. 243-248. |
| * | D482 | Rosenberg, "Perceptual Design of a Virtual Rigid Surface Contact," Armstrong Laboratory AL/CF-TR-1995-0029, 1993, pp. 1-45. |
| * | D483 | Rosenberg, "Virtual Haptic Overlays Enhance Performance in Telepresence Tasks," Dept. of Mech. Eng., Stanford Univ., 1994. |
| * | D484 | Rosenberg, et al., "The Use of Force Feedback to Enhance Graphical User Interfaces," Proc. SPIE 2653, 1996, pp. 243-248. |
| * | D485 | RUSSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992. |
| * | D486 | RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990. |
| * | D487 | SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994. |
| * | D488 | SCHMULDT et al., "Application Areas for a Force-Feedback Joystick," 1993, Advances in Robotics, vol. 49, pp. 47-54. |
| * | D489 | "Component Maintenance Manual with Illustrated Parts List, Coaxial Shaker Part No. C-25502", Safe Flight Instrument Corporation, Revised 28 Jan 2002 (3 pages) |
| * | D490 | "Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502", Safe Flight Instrument Corporation, revised 15 July 1980 (23 pages) |
| * | D491 | Safe Flight Instruments Corporation, "Coaxial Control Shaker," Part No. C-25502, 1 July 1967. |
| * | D492 | SHIMOGA, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30 - Oct. 1, 1992. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 23 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|---|
| * | D493 | Force Feedback Touch Panel, Represented by CSC Division, Sales Department, SIXIK Corporation, Tokyo, Japan, www.smk.co.jp. cited by other . |
| * | D494 | SMK Corporation, "Force Feedback Type Optical Touch Panel Developed," SMK Corporation Website, October 30, 2002 |
| * | D495 | SMK Corporation, "Multi-Functional Touch Panel, Force-Feedback Type, Developed: A Touch Panel Providing a Clicking Feeling," http://www.smk.co.jp/whatsnew_e/628csc_e.html , September. 30, 2002. |
| * | D496 | SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. MPO-17851; JPL Case No. 5348, pp. 1-4, 06/15/1989. |
| * | D497 | STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992. |
| * | D498 | SU et al., "The Virtual Panel Architectures: A 3D Gesture Framework," University of Maryland, pp. 387-393. |
| * | D499 | TADROS, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators", MIT Archive © Massachusetts Institute of Technology, pp. 1-88, February 1990. |
| * | D500 | TAN et al., "Manual Resolution of Compliance When Work and Force Cues are Minimized," DSC-vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 99-104. |
| * | D501 | TERRY et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire, March 10-11, 1988. |
| * | D502 | WIKER, "Teletouch Display Development: Phase 1 Report," Technical Report 1230, Naval Ocean Systems Center, San Diego, Apr. 17, 1989. cited by other. |
| * | D503 | Wiker, Steven F., "Teletouch Display Development: Phase 1 Report," Naval Ocean Systems Center, Technical Report 1230, July 1988, 66 pages. |
| * | D504 | Wiker, Steven F. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proceedings of the Human Factors Society 35th Annual Meeting, 1991, pp. 708-712. |

| | |
|--|----------------------------|
| EXAMINER | DATE CONSIDERED |
| /Hyun Nam/ (10/25/2010) | |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 24 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./

| | | |
|--|----------------------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No.: | 10/538,163 |
| | Filing Date: | June 2, 2006 |
| | First Named Inventor | Danny A. GRANT |
| | Art Unit | 2184 |
| | Examiner Name: | NAM, HYUN |
| | Attorney Docket No.: | IMM152B (1103 1940US) |

OTHER DOCUMENTS

| Examiner INITIAL | INDEX | CITATION |
|---------------------|-------------|---|
| * | D505 | WINEY III, "Computer Stimulated Visual & Tactile Feedback as an Aid to Manipulator & Vehicle Control," MIT, 1981, pp. 1-79. |
| * | D506 | YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992, pp. 1103-1110. |
| * | D507 | YOKOKOJI, et al., "What You Can See is What You Can Feel—Development of a Visual/Haptic Interface to Virtual Environment," Proc. VRAIS 1996. |
| * | D508 | YOKOKOJI et al., "What you can see is what you can feel," IEEE 0-8186-7295-1, 1996, pp. 46-54. |
| * | D509 | IPRP PCT/US2005/036861 mailed 02/23/2006 |
| * | D510 | ISR/WO - PCT/US2005/036861 mailed 02/23/2006 |

| | |
|--|----------------------------|
| EXAMINER /Hyun Nam/ (10/25/2010) | DATE CONSIDERED |
| Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | |
| Form SB/08 (modified) | SHEET 25 OF 25 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.N./